

AI & ML RESEARCH PUBLICATION GUIDANCE

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CONTENT

- AI RESEARCH MILESTONE
- STEP BY STEP BREAK-DOWN





AI RESEARCH MILESTONE





TOPIC SELECTION

ASK AN INTERESTING
RESEARCH QUESTION

ELEMENT I

YOUR RESEARCH
TOPIC HELPS THE
WORLD AND IT
ANSWERS
QUESTIONS THAT
CONTRIBUTE TO
THE SOCIETY.

ELEMENT II

YOUR RESEARCH
TOPIC REQUIRES
CERTAIN SKILLS
AND TECHNIQUES
THAT CAN
ADVANCE YOUR
CAREER.

ELEMENT III

YOUR RESEARCH
IS EASY TO BE
ACHIEVED. EX:
YOUR RESEARCH
TOPIC CAN BE
DONE WITHIN 10
WEEKS.



TOPIC SELECTION



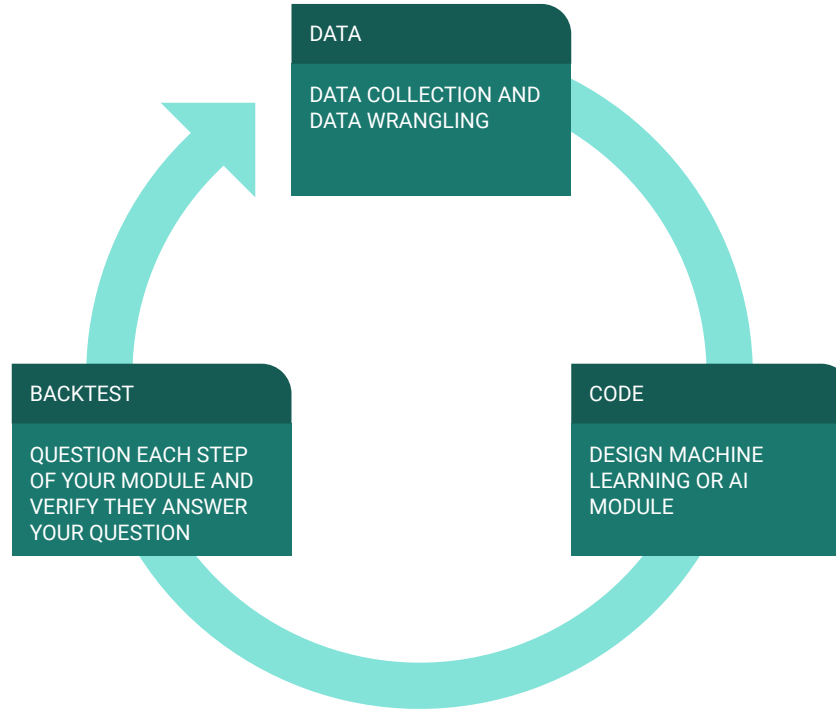


EXPERIMENT DESIGN

DATA COLLECTION &
WRANGLING, EDA, VERIFY
DATA CAN ANSWER THE
RESEARCH QUESTION



EXPERIMENT DESIGN





CONDUCT EXPERIMENT

WRITE THE PYTHON CODE
AND PRODUCT THE MACHINE
LEARNING PIPELINE



CONDUCT EXPERIMENT



I

DEFINE ML OR AI PROBLEM

MAKE SURE YOU TRANSITION FROM YOUR RESEARCH
QUESTION TO A PARTICULAR DATA SCIENCE OF MACHINE
LEARNING QUESTION.

II

ALGORITHM AND EXPERIMENT DESIGN

DESIGN THE ENTIRE DIAGRAM OF YOUR EXPERIMENT AND
ENVISION WHERE THINGS COULD GO WRONG

III

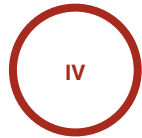
PRODUCE CLEAN CODE

CODE! CODE! CODE!

IV

BACKTEST AND SOFTWARE

BACKTEST YOUR ALGORITHM ON TEST DATA AND DEVELOP
POTENTIAL SOFTWARE FOR PUBLICATION AND COMMERCIAL
USAGE.



IV

PAPER

PRODUCE A PROFESSIONALLY
WRITTEN ACADEMIC PAPER



PAPER

CENTRAL IDEA

THE CENTRAL IDEA NEEDS
TO BE A GOOD SELL!

LOGICAL FRAMEWORK

THE PAPER HAS CLEAR
ILLUSTRATION OF THE
LOGICAL FRAMEWORK OF
YOUR EXPERIMENT.



RESULTS PRESENTATION

THE LAB AND EXPERIMENT
RESULTS NEED TO BE
CLEARLY PRESENTED

FORMATTING

THE FORMATTING OF THE
PAPER SHOULD FOLLOW
JOURNAL REQUIREMENTS.

ACADEMIC PAPER

A PROFESSIONAL ACADEMIC PAPER
NEEDS TO HAVE 4 ELEMENTS FROM
THE LEFT:

- 1) CENTRAL IDEA
- 2) LOGICAL FRAMEWORK
- 3) RESULTS PRESENTATION
- 4) FORMATTING





PUBLICATION

JOURNAL SELECTION AND
SUBMISSION, AND GET READY
FOR REVIEWS AND
PRESENTATIONS



PUBLICATION



ANY QUESTIONS?

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